



National Weather Service

Storm Data and Unusual Weather Phenomena



September 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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ILLINOIS, Northwest

ILZ001>002-007-009-015>018-024>026-034>035 Jo Daviess - Stephenson - Carroll - Whiteside - Rock Island - Henry - Bureau - Putnam - Mercer - Henderson - Warren - Hancock - McDonough

01	0000CST	0	0	Drought
30	2359CST			

The drought of 2005 that started in June continued into September 2005 and October 2005. By September, the drought was affecting mainly hydrologic aspects and to a lesser extent agricultural. A report of the hydrologic issues affected by the drought is supplied by the service hydrologist.

September precipitation averaged 2.7 inches which was 0.7 inches below normal. Departures from normal ranged from +0.1 inches (Burlington IA) to -1.7 inches (Dubuque IA). Precipitation percent of normal averaged 79 percent, with individual figures ranging from 103 percent (Burlington IA) to 54 percent (Dubuque IA). The three-month average precipitation departure from normal is -4.7 inches, or 60 percent of normal. September was the eighth consecutive month with an average deficit of precipitation. The twelve-month precipitation departure is -8.62 inches, or 76 percent of normal.

Other River and Stream Conditions

Stream flows began the month with streams in Iowa and Missouri mainly near normal (25th to 75th percentile), with a few reporting below normal (10th to 24th percentile) conditions. In Illinois, however, conditions were different. Most of the locations reported either below normal or much below normal (less than 10th percentile) flows. A couple locations were reporting record low flows for the day.

Conditions remained nearly the same for the entire month. Some rain events brought a few locations in Iowa-especially in the western HSA-to above normal (76th to 90th percentile) conditions for a few days during the month. A significant rain event affected locations northwest of the HSA toward the end of the month. Runoff from this rain pushed rivers in the northwest HSA, such as the Wapsipinicon and Cedar Rivers, to above to much above normal (greater than 90th percentile) flows. No flooding was reported in the HSA, however. The month ended with locations in the northwest HSA experiencing above to much above normal conditions, while elsewhere conditions were near normal except for a few locations that reported below normal conditions

Stream flows again fell during the last third of the month, with conditions by the end of the month much similar to those at the beginning of the month.

Hancock County

**Nauvoo to
Hamilton**

08	1510CST	0	0	10K	Thunderstorm Wind (EG56)
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Illinois highway 96 covered with downed branches between Nauvoo and Hamilton

Henderson County

Stronghurst

08	1520CST 1600CST	0	0	Heavy Rain
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1 inch of rain in 40 minutes.

McDonough County

Macomb

08	1550CST	0	0	6K	Thunderstorm Wind (EG52)
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Branches down on Western Illinois University campus and in other parts of the city. There was a report of a measured 57 knot (65 mph) wind gust with the storms.



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ILLINOIS, Northwest

Whiteside County

Sterling **13** **1632CST** **0** **0** **Thunderstorm Wind (EG52)**

A spotter estimated wind gusts at 60 mph.

An upper level disturbance initiated a small cluster of thunderstorms in east central Iowa in a moist to near tropical atmosphere. The cluster bowed out across Scott County Iowa and then moved rapidly into northwest Illinois. Sporadic to near continuous wind damage occurred across Whiteside County Iowa with trees and power lines downed. In Coleta, Illinois, a tree fell on a moving vehicle and injured the driver.

An hour before the small bowing line of storms developed, another line of storms bowed out across Whiteside County Illinois and produced estimated and measured winds of 43-48 knots (50-55 mph).

Hancock County

Bentley **13** **2023CST** **0** **0** **Hail(0.88)**

0.70 to 0.88 inch hail from co-op observer.

An upper level disturbance initiated scattered thunderstorms along a cold front in a moist atmosphere. A lone storm pulsed severe over Bentley, Illinois and produced nickel sized hail.

McDonough County

2 E Good Hope **19** **1345CST** **0** **0** **1K** **Hail(1.00)**

McDonough County

Bushnell **19** **1400CST** **0** **0** **3K** **Hail(1.00)**

Nickel to quarter sized hail with street flooding.

McDonough County

Macomb **19** **1610CST** **0** **0** **7K** **Thunderstorm Wind (MG52)**

measured gust

Thunderstorms developed in southeast Iowa along a cold front that was moving through a moist to near tropical atmosphere. Two separate storms became severe in west central Illinois and produced 1 inch hail and marginal severe winds in McDonough County

Bureau County

2.3 NW Wyand **22** **1711CST** **0** **0** **2K** **Hail(1.75)**

Reported by state police on Interstate 80 at mile marker 49.

Bureau County

Princeton **22** **1717CST**
1733CST **0** **0** **2M** **Hail(2.75)**

Also reported by emergency manager, law enforcement, and the fire department.

Hail across Princeton ranged from 1.00 inch to 2.75 inches with the most significant hail damage on the south side of the city. State police also reported golfball sized hail (1.75 inch) at the Princeton exit on Interstate 80 (exit 56).

Bureau County

Princeton **22** **1719CST**
1730CST **0** **0** **50K** **Thunderstorm Wind (EG52)**

A downburst occurred mainly across the northern part of the city near the conclusion of the large hail. The downburst combined with the large hail caused considerable damage to property. Numerous trees, tree limbs, and power lines were downed blocking roads



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ILLINOIS, Northwest

Bureau County

Bureau	22	1733CST	0	0	50K	Hail(2.75)
Hail was mainly pea to quarter (1.00 inch) size with some golfball (1.75 inch) and a few baseball (2.75 inch) stones.						

Bureau County

Depue	22	1735CST	0	0	10K	Hail(1.00)
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Bureau County

Ottville	22	1735CST	0	0	Hail(0.88)
Also heavy rain					

Putnam County

1 N Granville	22	1745CST	0	0	5K	Hail(1.75)
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Scattered thunderstorms developed along an outflow boundary across northwest Illinois in a moist to near tropical atmosphere. A lone storm developed into a supercell across Bureau County and produced hail up to baseball size. In Princeton, Illinois, a car dealership had 400 of its 500 cars damaged by the storm. Additionally, a downburst produced damaging winds in the city of Princeton. The storm turned to the right at Princeton and moved in a southeast direction toward the Illinois River and Putnam County.

A survey of the damage indicated a sporadic to near continuous damage path across Bureau County. The damage path started out about 2 miles wide west of Princeton and expanded to around 5 miles wide southeast of Princeton along the Illinois River. The storm weakened rapidly after exiting Bureau County but not before producing significant severe hail in Putnam County.

IOWA, East Central and Southeast

IAZ041>042-051>054-063>068-076>078-087>089-098>099 **Delaware - Dubuque - Benton - Linn - Jones - Jackson - Iowa - Johnson - Cedar - Clinton - Muscatine - Scott - Keokuk - Washington - Louisa - Jefferson - Henry - Des Moines - Van Buren - Lee**

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30	2359CST			

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IOWA, East Central and Southeast

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Linn County

5 E (Cid) Cedar Rapids A	08	1305CST 1012CST			1	1		Lightning
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Lightning struck two golfers at the Airport National Public Golf Course 5 miles east of Cedar Rapids Airport. Both golfers were rushed to a nearby hospital where one (a 38 year old male) was pronounced dead. The other golfer, male, age 37, was treated and released.

An upper level disturbance combined with a warm front running from northern Iowa into west central Illinois initiated thunderstorm development in a semi-moist atmosphere. The storms were prolific hail and lightning producers with hail generally being 0.50 inch or less.

M38GF

Jefferson County

2 WNW Packwood	08	1305CST 1310CST			0	0	6K	2K	Hail(1.00)
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also heavy rain between Pekin and Packwood.

Jefferson County

Packwood	08	1305CST			0	0	10K		Hail(1.75)
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Nickel to golfball sized hail

Jefferson County

Packwood	08	1305CST			0	0	5K		Thunderstorm Wind (EG52)
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6 inch diameter limbs down

Jefferson County

Fairfield	08	1325CST			0	0	5K		Thunderstorm Wind (EG50)
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Branches down along with pea sized hail and water ponding on roads

Washington County

6 S Washington	08	1350CST 1415CST			0	0			Heavy Rain
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0.70 inch of rain in 25 minutes

Van Buren County

Keosauqua	08	1425CST 1430CST			0	0	3K		Thunderstorm Wind (EG52)
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Henry County

Mt Pleasant	08	1432CST 1442CST			0	0	4K		Thunderstorm Wind (EG52)
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Telephone pole snapped with numerous 2 inch diameter limbs down. Time estimated based on radar.

Lee County

Denmark	08	1454CST			0	0	12K		Thunderstorm Wind (EG57)
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6-10 inch diameter trees down with numerous large branches down.

Lee County

Montrose	08	1454CST			0	0	7K		Thunderstorm Wind (EG52)
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Numerous large limbs and trees were downed. Also, a corn field was flattened on 300th Street just east of Highway 27.

Des Moines County

West Burlington	08	1455CST			0	0	4K		Thunderstorm Wind (EG52)
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Law enforcement estimated wind gusts at 50 to 60 mph.



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IOWA, East Central and Southeast

Lee County

**1.5 N Argyle to
.5 E Argyle** **08** **1455CST** **0** **0** **15K** **6K** **Thunderstorm Wind (EG57)**

From co-op observer. A porch was damaged in Argyle. A semi truck with an empty trailer stopped on highway 27 just before the storm hit and had its trailer blown over.

Des Moines County

2 W Middletown **08** **1500CST** **0** **0** **3K** **Thunderstorm Wind (EG52)**

Numerous branches down

Lee County

Keokuk Arpt **08** **1502CST** **0** **0** **5K** **Thunderstorm Wind (MG56)**

From KEOK AWOS. KEOK measured a 56 knot (64mph) wind from 1500-1502 CST before power was lost. KDVN 88D radar data would suggest that severe winds continued for another 8 minutes before ending.

Des Moines County

Burlington **08** **1503CST** **0** **0** **15K** **Thunderstorm Wind (EG52)**

Numerous trees and branches down. KBUR radio measured a peak gust at their station of 41 knots (47 mph). There is also a report of a measured gust of 52 knots (60 mph) on Adams street in Burlington.

Lee County

Keokuk **08** **1505CST
1513CST** **0** **0** **10K** **Thunderstorm Wind (EG52)**

Numerous 2 to 4 inch diameter branches down throughout the city. A ham radio operator lost his antenna.

Lee County

Keokuk **08** **1538CST** **0** **0** **Heavy Rain**

Water 6 inches deep on some streets in downtown.

An MCS moving through Iowa initiated isolated severe thunderstorms along its outflow boundary during the early afternoon hours. The intense line of storms on the south end of the MCS bowed out as it reached southeast Iowa and raced into west central Illinois and far northeast Missouri.

Scott County

Princeton **13** **1554CST** **0** **0** **8K** **Thunderstorm Wind (EG57)**

Thunderstorm winds downed 1.5 foot diameter trees and limbs on the west and south sides of town.

Scott County

4 N Princeton **13** **1600CST** **0** **0** **2K** **Hail(0.88)**

Nickel sized hail.

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IOWA, East Central and Southeast

Jefferson County

4 NE Fairfield 18 2338CST 0 0 2K Hail(0.75)

A lot of pea to dime sized hail with a few stones of penny size.

An upper level disturbance combined with a low level jet to initiate scattered thunderstorms across south central and southeast Iowa in a moist atmosphere. A lone storm pulsed severe and produced 0.75 inch hail 4 miles northeast of Fairfield, Iowa

Washington County

Washington 25 2315CST
2322CST 0 0 10K Hail(1.25)

Also reported by spotters.

A cold front moving through a near tropical atmosphere produced scattered thunderstorms in southeast Iowa. A lone storm pulsed severe as it moved across Washington, Iowa. Hail size started out at 0.75 inch but quickly increased to 1.00 to 1.25 inch and lasted for several minutes.

MISSOURI, Northeast

MOZ009>010

Scotland - Clark

01 0000CST 0 0 Drought
30 2359CST

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MISSOURI, Northeast

Clark County

3.8 WNW Anson to 2.6 NW Anson	08	1435CST			0	0	4K	8K	Thunderstorm Wind (EG57)
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Corn was flattened on the Verkruyse Farm just south of County Route V. On the Gaston Farm just north of County V, a 12 inch diameter ash tree was felled along with a few shingles being pulled off an outbuilding. West of the intersection of County Route V and Highway 81 a telephone pole was snapped off at the base.

Clark County

Athens	08	1442CST 1452CST			0	0	3K		Thunderstorm Wind (EG52)
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From co-op observer. Two trees along with many branches down.

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